

Online Plumbing Continuing Education

Course Name: Plumbing and Heating 12 hour CE - Utah

Code Reference: IFGC/IPC/UPC/IMC/OSHA/ASTM

Course Credit Hours: 12 hours (12 timed modules at 50 minutes each)

Course Fee: \$72

Course Timer:

Each module is timed, requiring the client to be engaged in active study in order to progress. Inactivity results in progress termination. Each module includes a test, and requires a passing score to continue.

Course Instructor: E.K. Becerra [OK#92710]

Course Availability:

Course is available online 24/7 at www.CEUOK.com until 01/01/2016. [*Pending Approval]

Module 1: Plumbing Regulations (IPC/UPC)

- Definitions
- Vents, Sumps, and Cleanouts
 - Size of Drainage Piping
 - Size of Plumbing Vents & Vent Termination
 - Grade of Horizontal Drainage Piping
 - Drainage of Fixtures Located Below the Main Sewer Level
 - Macerating Toilet Systems

Module 2: Plumbing Fixtures (IPC/UPC)

- Definitions
- Installations
 - Water-Conserving Fixtures and Fittings
 - Water Closets
 - Urinals
 - Metered Faucets
 - Floor Drains and Shower Stalls

Module 3: Water Supply (IPC/UPC)

- Definitions
- Potable and Nonpotable Water Systems
 - Unlawful Connections
 - General Requirements
 - Specific Requirements
 - Materials
 - Valves

Module 4: Special Piping (IPC/UPC/NFPA)

- Definitions
- Structural Safety
- Gray water & Medical Gas
 - System Categories by Level of Risk
 - Minimum Pipe Sizes
 - Brazing and Soldering
 - Installer Qualifications
 - Acceptance Testing

Module 5: Water Heaters (IPC/UPC)

- Definitions
- Types of water heaters
- Water Heater Requirements
 - Appliances in Attics
 - Installation in Residential Garages
 - Installation of Appliances on Roofs
 - Energy efficiency
 - Sizing Storage and Heat Pump (with Tank) Water Heaters

Module 6: Gas Piping Installations (IFGC)

- Definitions
- General Piping Considerations
- Gas Pipe Sizing
 - Maximum Gas Demand
 - Allowable Pressure Drop
 - Maximum Design Operating Pressure
 - General Piping Considerations
 - Longest Length Method

Module 7: Appliance Venting Systems (IFGC/UPC)

- Definitions
- Chimneys and Vents
- Vent System Sizing
 - Gas Vent Terminations
 - Category I Appliances
 - Vent Area and Diameter
 - Vent Connector Size Limitation
 - Roof Terminations

Module 8: Appliance Combustion Air (IMC/UPC)

- Definitions
- Combustion Air
 - Carbon Monoxide
 - Louvers, Grilles, & Screens
 - Two-Permanent-Openings Method
 - One-Permanent-Opening Method
 - Indoor Combustion Air

Module 9: Soldering and Brazing According to B-828 Standards (ASTM)

- Definitions
- Safe Drinking Water Act
- AWS 3-T Rule
- ASTM B-828
 - Measuring and Cutting
 - Tube Reaming
 - Tube Cleaning
 - Soldering Flux
 - Assembly and support

Module 10: Industrial Hygiene (OSHA)

- What is Industrial Hygiene?
- OSHA and Industrial Hygiene
- Recognize and Control Hazards
 - Air contaminants
 - Chemical
 - Biological
 - Physical
 - Ergonomic hazards

Module 11: Construction Plans & Print Reading

- Parts of a Blueprint
- Projections and Views
- Structural and Architectural Drawings
- Construction Plans

Module 12: Bidding and Estimating

- Bid Documents
- Ethics in Bidding
- Estimate Planning
- Project Documents